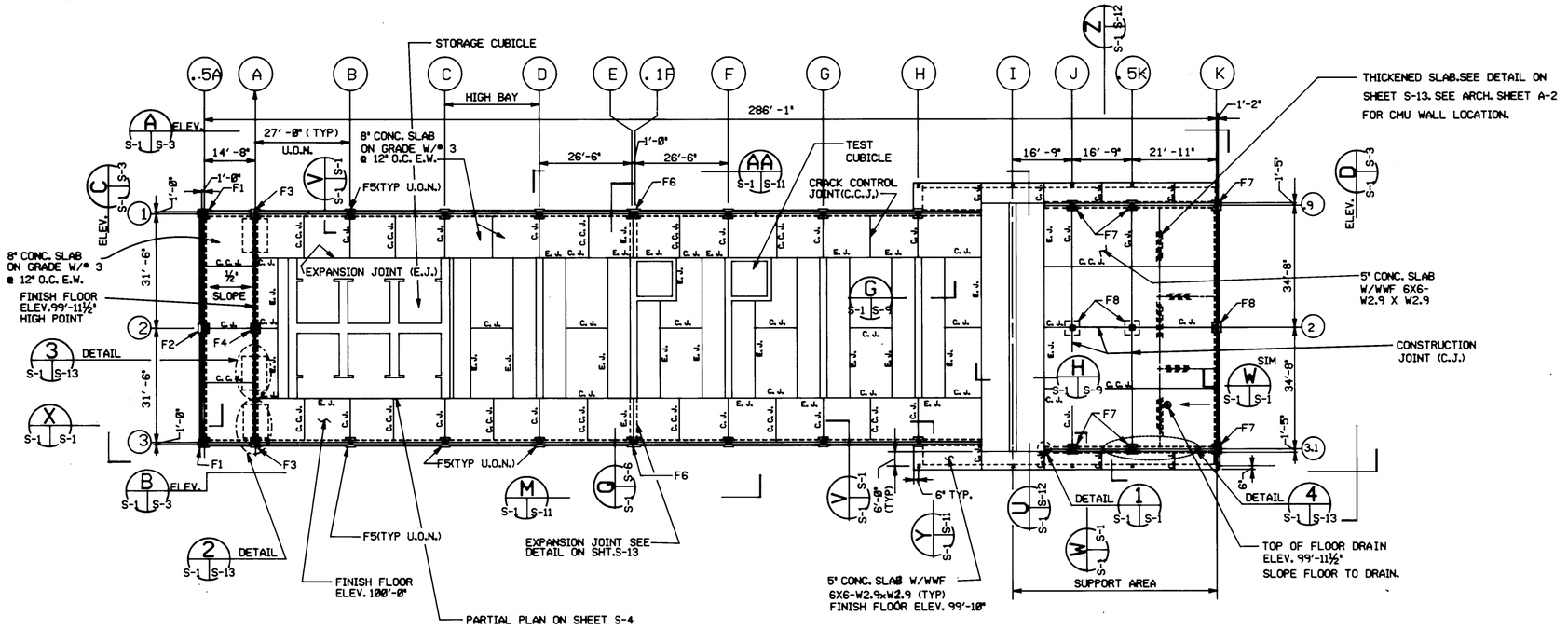
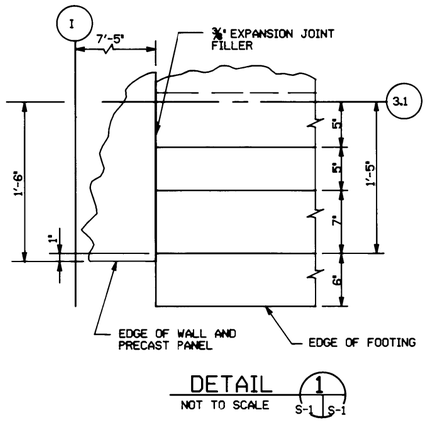
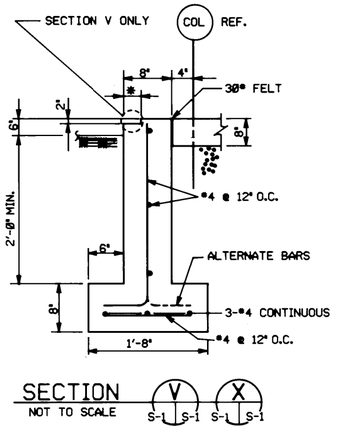



## FLOOR AND FOUNDATION PLAN

SCALE: 1/16" = 1'-0"
FINISH FLOOR ELEVATION 100'-0" U.O.N.



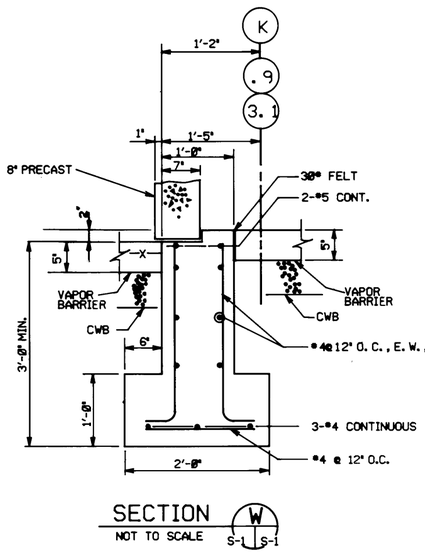

DETAIL 1 — NOT TO SCALE




SECTION V X — NOT TO SCALE

TYPICAL GRADE BEAM U.O.N.

* DIMENSION TO SUIT METAL SANDWICH PANEL THICKNESS MINUS ½"




SECTION W — NOT TO SCALE

TYPICAL SUPPORT AREA GRADE BEAM

KEY PLAN

## NOTES

**A.GENERAL:**

1.DESIGN LOADS

| | |
|---|---|
| ROOF LIVE | 30 PSF |
| DEAD | 15 PSF |
| SLABS ON GRADE | 125 PSF |
| FORKLIFT LOADS | 6000 LBS.CAPACITY |

2.WIND LOADS BASED ON A BASIC WIND SPEED OF 90 MILES PER HOUR, EXPOSURE C, IN ACCORDANCE WITH ANSI A58.1-1982

3.SEISMIC ZONE 4 — Z=1.0, CS=0.14, K=1.00, I=1.25

4.THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL OPENINGS,SLEEVES,ETC.,WITH SHOP DRAWINGS OF THE EQUIPMENT TO BE INSTALLED.

5.STRUCTURAL DRAWINGS ARE REFERENCED TO A FIN.FL.EL.OF 100'-0" FOR EACH BUILDING. FOR TRUE SITE ELEVATION OF EACH BUILDING, SEE SITE ADAPTED GRADING AND DRAINAGE PLANS.

**B.CONCRETE:**

MATERIAL STRENGTHS

1.CONCRETE(MIN.28 DAY COMPRESSIVE STRENGTH)

| | |
|---|---|
| PRECAST CONCRETE | f'c=5000 PSI |
| BLAST WALLS AND FOUNDATIONS | f'c=4000 PSI |
| ALL CONCRETE NOT OTHERWISE SPECIFIED | f'c=3000 PSI |
| MODULUS OF RUPTURE, APPLIES TO 8" SLABS ON GRADE ONLY | fr=650 PSI |
| REINFORCEMENT | |
| STIRRUPS,TIES AND LACING | fy=40,000 PSI MIN. |
| ALL OTHER | fy=60,000 PSI |

2.UNLESS OTHERWISE NOTED,PROVIDE CONCRETE PROTECTION FOR ALL REINFORCING IN ACCORDANCE WITH PARAGRAPH 7.7 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE(ACI-318-77).

3.ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH SP-66 ACI DETAILING MANUAL-1980. MINIMUM SPLICE LENGTHS AND BAR EMBEDMENT LENGTHS SHALL BE AS TABULATED THEREIN.
a."TOP BARS"ARE HORIZONTAL BARS WHICH HAVE MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BAR(INCLUDES ALL HORIZONTAL WALL REINFORCEMENT).
b."OTHER BARS"INCLUDE ALL VERTICAL REINFORCEMENT AND ALL HORIZONTAL REINFORCEMENT WHICH HAVE LESS THAN 12 INCHES OF CONCRETE CAST BELOW THE BAR FOR WHICH BASIC TENSION LAP SPLICES IN NORMAL WEIGHT CONCRETE ARE APPLICABLE.
c.UNLESS OTHERWISE SHOWN,ALL REINFORCEMENT SHALL BE TREATED AS TENSION REINFORCEMENT.
d.THE TENSION DEVELOPMENT(EMBEDMENT)LENGTH,Ld OR Ldh,EQUALS A CLASS A SPLICE LENGTH.
e.IF MORE THAN ONE HALF OF THE TENSION BARS ARE LAP SPLICED WITHIN THE REQUIRED LAP LENGTH,A CLASS C SPLICE SHALL BE USED,UNLESS OTHERWISE SHOWN. ALL OTHER TENSION SPLICES SHALL BE CLASS B.

4.UNLESS OTHERWISE SHOWN,REINFORCEMENT AT WALL CORNERS AND INTERSECTIONS SHALL BE IN ACCORDANCE WITH DETAILS SHOWN IN ACI 315-80 AND LAP SPLICES SHALL BE CLASS C.

5.UNLESS OTHERWISE NOTED,PROVIDE DOWELS TO MATCH VERTICAL AND HORIZONTAL REINFORCEMENT IN ALL WALLS AND SLABS.

6.COORDINATE LOCATION OF MECHANICAL PIPE AND ELECTRICAL CONDUIT SLEEVES AND OPENINGS. PRIOR APPROVAL BY THE CONTRACTING OFFICER REQUIRED FOR CUTTING AND BENDING OF REINFORCEMENT TO ACCOMMODATE SLEEVING AND IN NO CASE SHALL MAJOR REINFORCEMENT BE CUT OR BENT.

7.CONTINUOUS REINFORCING IN WALLS AND SLABS MAY BE SPLICED, AS REQUIRED,PROVIDING BARS ARE OF THE LONGEST PRACTICABLE LENGTH AND ALL SPLICES ARE SHOWN ON REINFORCING SHOP DRAWINGS. WHEREVER POSSIBLE,SPLICES SHALL BE STAGGERED. FOR BLAST WALLS, SPLICE REINFORCING IN ACCORDANCE WITH DETAILS ON SHEET 18.

8.CONSTRUCTION JOINTS AND CRACK CONTROL JOINTS ARE SHOWN ON THE DRAWINGS. FOR LOCATION OF CONSTRUCTION JOINTS OF BLAST WALLS, SEE POURING SEQUENCE ON SHEET 18.

9.PROVIDE 3/4" CHAMFER ON EXPOSED EDGES OF CONCRETE.

10.PROVIDE ADEQUATE INSPECTION PANELS IN WALL FORMING TO FACILITATE CONCRETE PLACEMENT,TO INSURE THAT NO VOIDS OCCUR AND THAT ADEQUATE CONSOLIDATION OCCURS.

CONT.ON SHT S-2

| Symbol | Description | Date | Approved |
|---|---|---|---|
| | Revisions | | |

US ARMY ENGINEER DIVISION HUNTSVILLE
CORPS OF ENGINEERS
HUNTSVILLE, ALABAMA

Site adapt A/E :

US Army Corps of Engineers

Dwn. by : RDP | Ckd. by :

STANDARD DESIGN
AMMUNITION SURVEILLANCE FACILITY
FLOOR AND FOUNDATION PLAN

Reviewed by : | Date : | Sheet reference number : S-1 | Design file no. : | Rev.

Approved by : | Drawing code : STD 216-12-01 | Sheet of